STATE ARMY //	CLASSIFICATION AIR () ASRB	V CONTINUE TO THE CONTINUE TO		
	1949. There was an addi	pian. However, const tional power unit for	ruction had not started direct current in the	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	transformer station. In ly 4,000 kw. Power inte	is surrounding the pi 1949, the power requestions were freque	ant were extended to endirements of the plant wont. The construction of and a PV architect was	clese the ore dilected
1	owned transformer stati former station was loca	it came from Rostov (on consisting of six itsd in the northeaste	47°15'11/39°53'E) throug open-air transformers. The property of the plant of	h a plant- The trans-
<u>.</u> 1	Electric nower was alle	gedly supplied by the	power plant near Shakh	ty 2
X.	electric equipment and Plants in Kharkov (5000	miscellaneous accesson (No. 17.18) and Lenist of the electric mot	e thakity area. Incomin from the Dynamo Plant i ries from the Electro-T ngrad (59055*1/30015*3) ors for locomotive cons	n "osoov, econical
3	141004 m/ 000 cr. m/ or a	much allegedly 1.750	red iron ore from Kriv tons were shipped in 19 Shekhty area. Incomin	lina manage
	the Pittler Plant in Land Soviet machines, The	p3/2 76), by some mach sipzig (N 52/K 69), an ne expansion and recor ots 19h9, Part of the	thee are the Borsig Place by a few Japanese, Am astruction of the plant mechanical equipment wa	ant and erican,
	has been under reconsti by dismantled German e	ere clamantled and ever ruction since 1945. Me numbers from the AFC	and during the war. Hinet accusted to the Urals. The est of the equipment was Electric Locomotive Pla	e plant replaced
2.	Some buildings of the	plant including the S	orge, the boilerhouse, t	he tool
. 4. (1	(47046'N/40012'E). The spur track brenched in	Jo'L)on the double-tra plart had a spar tra- to three tracks within exerteed line and was	oout 6 km north-northwere to the railroad line to the main railroad a the plant area. The eaused for test runs of t	khty line. The
1	The Rudsneys to			_
	A STATE OF THE STA	ALIANGES ATTO: U ATS		
U. E. C., SI AN OF THE CONTE MINITED BY LI	T CONTAINS (INFORMATION APPECTINS THE MANICE) DISTANCE WITHIN THE MEASURE OF THE ESPONANT DR. AS AUGUSTEDED. HE TRANSMICTION OF THE INTO HE SHOWN AND THE MEASURE OF THE PROPERTY OF THE POPULATION PROPERTY OF THE POPULATION OF TH	ACT ACT STATE THE STATE THE STATE THE STATE STAT	IS UNEVALUATED INFORM	ATTON 25X
DATE OF NFO.		The Co	SUPPLEMENT T REPORT NO.	70 25
PLACE ACQUIRE	<u> </u>	ock!	NO. OF PAGES NO. OF PAGES NO. OF ENCLS (USTED DELOV!) SUPPLEMENT TREPORT NO.	1 (5 pages)
SUBJECT	Budënnyy Mectric Lo Novocherkassk 25X1	comotive light in	NO. OF PAGES	2
COUNTRY	cook (10300) obtasty		DATE DISTR	25
		•		

Approved For Release 2004/04/15 : CIA-RDP82-00457R014900110003-6	
DOLVE THE CONTRACT OF THE PROPERTY OF THE PROP	25X1
2	-
	+
station, used to supply the electroplating installations.	
The plant repaired electric locomotives until early 1947 and then started to produce electric locomotives. The monthly production consisted of one locomotive in Farch 1947, four locomotives in late 1947, and from six to eight locomotives in 1948. In 1949, from 3 to 14 locomotives were produced monthly, i.e. 32 locomotives from January to April, 35 locomotives from May to August, 55 locomotives from September to December, making a total of 122 locomotives produced during the year. The monthly output was scheduled to be increased to 20 locomotives in 1950. After the completion of the reconstruction and expansion work and after installing all the necessary mechanical equipment, the production rate was scheduled to be increased to one locomotive daily by early 1951. In 1949, the plant produced only the VL 22 type freight train electric locomotive with the following specifications: weight 132 tens, length about 16 reters, 6 axles, 6 motors with working	
voltage of 1,500, and an output of 100 km each. totaline 2.100 km. The maximum speed was about 70 km/h. the claucasus, loscom, and Stalinsko-Kuznetsk (53ch7*M/87010*E). New types of locamotives were allegedly continuously developed in the technical designing office, but the plans were not carried out. Only seme minor improvements were made in the construction of the VL 22.	25X1
plant had about 2,000 employees in September 1949. Thirty-five to forty percent of the employees were women. In addition, 180 Pas worked in this plant, with about 200 of them working in the production department. York was done in three shifts in the most important production departments. About 2,000 employees worked in the shift from 3 z.u., to 4 p.m., about 2,000 worked in the shift from 1 p.m. to midnight, and shout 1,000 worked in the shift	

25X1 6ა prant : percent plant, was dor 2,000 e in the from midnight to 8 a.m. There were also about 1,000 construction workers working in two shifts on the reconstruction of the plant. Fost Pas were discharged from the plant prior to late 1949. When the ARC Plant in Berling Hennigsdorf was dismantled, the department chief for field railroads (sic), graduate engineer Dr. Kreuter (fmu), was sent to the U.C.G.R. where he was employed in a leading position in the Novocherkassk Locomotive Plant. 25X1 Kreuter was dismissed in 1951 and is now employed at the LEW (Locomotive Electrical Engineering Flants) in Berlin-Hennigsdorf.

25X1

7. The plant area was surrounded by a 2-meter high wall reinforced with barbed wire, and with four or five watchtowers. The plant was guarded by plant militia armed with carbines. Guards were always on duty at the plant entrunce and at the fuel dump. In 1969, the plant militia was being trained in use of the 76-rm gun, the 65-rm Al gun and the 32-rm mortar, outside the being trained in the plant area.

25X1

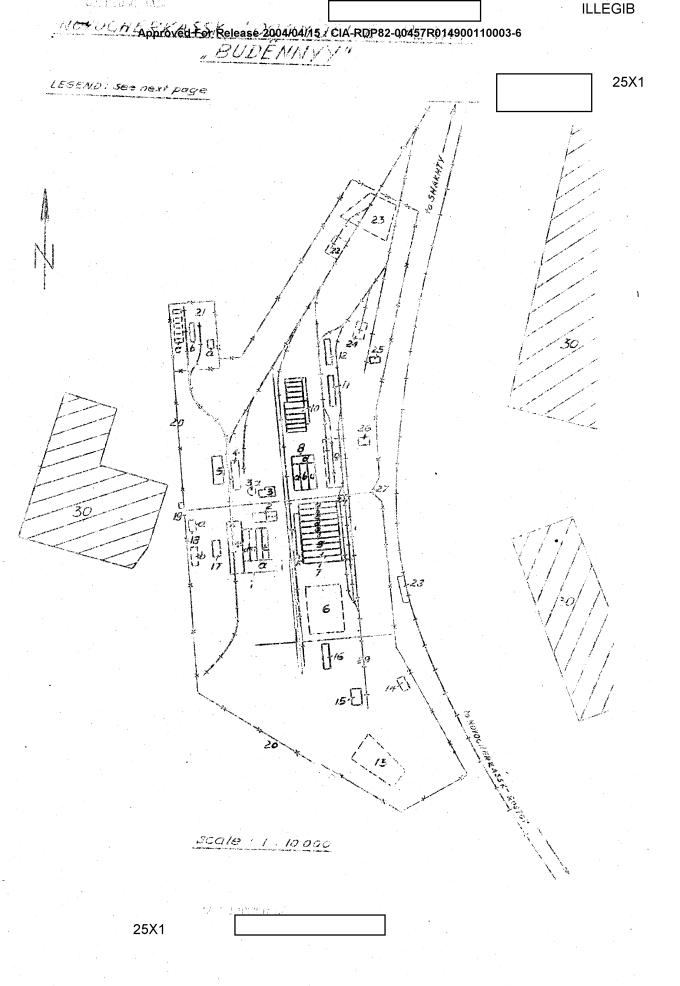
Comment. For Layout sketch of the plant.

25X1

COMPUNITION

25X1

25X1 *



• •			
CCIMIDALLEVI			
			_
<u> </u>	 	 	→ Attachment

Legend:

- 1. Foundry, a brick building, divided into several longitudinal sections,
 - a. Honferrous-retal foundry and melding shop for small parts, equipped with 1 foundry furnace for nonferrous metals with a capacity of about 300 kg, and 1 aluminum furnace with a capacity of about 150 kg. This foundry cast bearing boxes, bow trolleys (Strombuegel), bronze and aluminum parts. There was also a casting eleaning shop.
 - b. Molding shop for large castings, equipped with German molding machines with a roller bed (Rollgang).
 - c. Foundry department for large castings, equipped with 3 Siemens electric furnaces with a capacity of about 3 tens each, and 2 crane installations with a capacity of about 5 tens each. This foundry east notes casings, parts of locomotive undercarriages, locomotive wheels, and miscellaneous component parts.
 - d. Extension building. It was not equipped in 1949.
 - e. Sand preparing installation and scrap dump.
- Boiler house. It was destroyed during the war and resumed operation in autumn 1947. There were three coul-fired boiler installations. It had
 snokestacks, about 50 meters high.
- 3. Compressor station and pumping installation, equipped with 2 AEG compressors to supply compressed air for the plant. The water pump installation was used to pump drinking water from Novocherkassk to the plant. Water used for other purposes in the plant was also pumped through a feed pipe from the river. In the eastern part of the building was an electroplating department, equipped with a D.C. power unit.
 - a. Water tower,
- h. Fitting shop and plumbing shop.
- 5. Pattern-making shop, equipped with various woodworking machines. This shop produced patterns for the foundry and woodwork for locomotive construction.
- 6. New building, allegedly the department for production of electric notors and equipment for locomotive construction. It was divided into ten longitudinal sections: The construction of the building started in the spring of 1948. The brickwork was completed in the autumn of 1949. An extension to the north of this building was scheduled to be erected in 1950.
- 7. Main production and assembly department.
 - a. Body and frame construction shop, equipped with electrically operated plate shears, drilling machines, lathes, electric welding apparatus and a crame installation.

and the second s		
	- courideuri	n z Majo
25X1		

courteur <u>i.j.</u>	•		·	7

- b. Torkshop for the construction of undercarriages,
- c. Workshop for the assembly of undercarriages, equipped with pluning machines, vertical milling machines, vertical drilling machines, boring-and-turning mills, and a crane installation.
- d. Fitting shop and plumbing shop, equipped with turret lathes, threading machines, circular saws, pipe bending machines, electric annealing furnaces, and a crame installation. Bow trolleys, pipe lines and other items for the locometive construction were produced in this shop.
- e. Sheet-metal department and welding shop, equipped with sheet-metal bending machines, presses, drilling machines, sheet-metal shears, electric welding apparatus, and a crane installation. Bellers for compressed-air installations were produced here.
- f. Department for electric fittings, equipped with lathes, shaping machines, milling machines, and steel saws. Meetrical equipment for locomotives was produced here.
- Yachine shop and latheshop, equipped with turning and bering mills for processing locenotive whoels, lathes and grinding machines for processing axles and shafts, milling machines for cogwheels, slotting and planing machines, one electric furnace with a hardening installation, one machine for mounting the wheel sets, and a crame installation.
- h. Electric motor department, equipped with one press, punches, granding machines, lathes, planing machines, armature winding machines, annealing furnaces, and test stands. Component parts were produced and electric motors for locomotives were assembled here.
- i. Final assembly and varnishing shop. Two tracks passed through this shop. It had two cranes with carrying capacities of 120 bons and 50 tons respectively. It was possible to assemble six locometive at a time.
- k. Administrative office and technical designing office.
- force. It was demolished during the war and was reconstructed by October 1948. Locomotive frame parts, exles, shafts, connecting rods, belts, and springs were produced here.
 - a. Plumbing shop and punching shop. In the autumn of 1949, a small sheet-metal rolling installation was set up here.
 - b. Porge, equipped with 2 coal-fired furnaces, 2 annealing furnaces, 6 small oil-fired forge furnaces, one 100-ten press, one 1,500 kg hammer, one 1,000-kg hammer, and two 500-kg hammers.
 - c. Welding shop, equipped with 2 autogenous cutting machines and electric and autogenous welding apparatus.

CONFIT	POTTAL	•	

₩ <u>3</u>

- d. Office, and storago rooms.
- 9. New building with two tracks. It was completed in late 1949 and was compred with machine tools, pnoumatic hammers and electric selding equipment. The workshop was allegedly scheduled to be used for the final assembly of bedies for electric locomotives,
- 10. Tool department and repair shop. It was reconstructed and equipmed in late 1949. In the southern part of the workshop were the tool making shop and the repair shop for plant-ewaed electric maters. In the northern part were workshops for other plant repairs.
- 11. Warehouse, where dismentled equipment and machines were stored.
- 12. Depot and workshop for insulating material, and insulators. The lakery was
- 13. Storage place for lumber and building materials.
- 14. Slag stone factory, in which slag blocks and concrete roofing slabs for plant construction were produced.
- 15. Sawmill, equipped with one frame saw.
- 16. Carpentry shop and fitting shop for plant requirements.
- 17. Electric repair shop.
- 18. Oxygen department. Its daily production consisted of about 30 bottles of oxygen used for autogenous wolding.
 - a. Production building with one compressor installation for filling outgon bottles.
 - b. Storage place for oxygen bottles.
- 19. Western entrance with guardhouse.
- 20. Tro-retor high wall, reinforced with berbed wire.
- 21. Transformer station with long-distance transmission lines to Novocherkassk and Shakhty.
 - a. Administration building,
 - b. Transformer station.
 - c. Six open-air transformers. In the summer of 1919, a new 3-chase aluminum line on steel masts leading to Fovocherkassk was published operation.
- 22. Tank depot with 7 tanks which were half sunk into the ground, Fuel, cil, fats and dyes were stored in the tanks.

COMPLEMENTAL	•

- 23. Goal, iron, and scrap dump.
- 24. Yew varnishing and spraying shop. It was still under construction in late 1919.
- 25. Switchboard, radio station, garage and fire control tower.
- 26. Flant fire brigade with two fire engines.
- 27. Tain entrance and guardhouse.
- 28. Plant railroad station.
- 29. Tracks with electric overhead line for test runs of electric lecomotives.
- 30. Residential buildings.

COTFIDE;	"ZIAL		